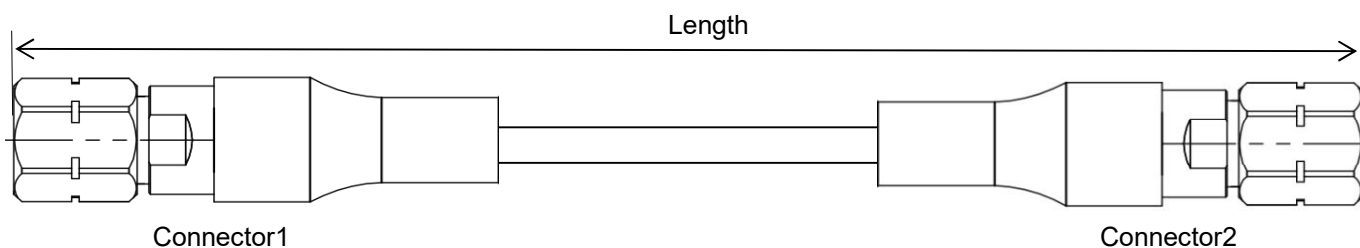


Precision Phase Stable Test Cable Assembly, Using PL360P

DC-50 GHz, 2.4mm Male to 2.4mm Male

PL360P-24M24M-L(L:Length)



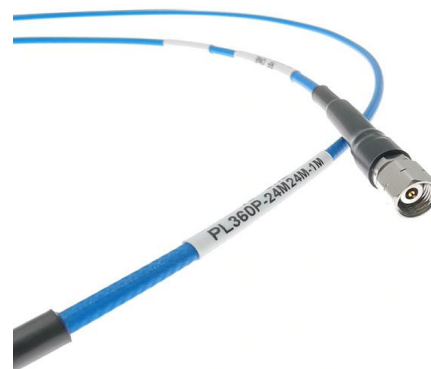
- Length can be in meter or in inch etc, e.g, PL360P-24M24M-1M. Standard length tolerance: $\pm 1.5\%$. Custom lengths and other connector types available.
- Length is measured from one connector end to the other connector end as shown above. For RA connectors, use the pin center-line.

Configuration

Connector 1	2.4mm male	Connector 2	2.4mm male
Body	Passivated stainless steel	Body	Passivated stainless steel
Center Contact	Gold plated BeCu	Center Contact	Gold plated BeCu
Cable Type	PL360P		

Cable Construction

No.	Construction	Size (mm)	Materials
1	Center Conductor	0.72	Solid silver-plated copper
2	Dielectric	2.15	Low density PTFE
3	Outer Conductor	2.30	Silver-plated copper tape wrap
4	Interlayer	2.60	Low density PTFE
5	Outer Shield	3.05	Silver-plated copper wire braid
6	Jacket	3.60	FEP



Electrical

Frequency	DC-50 GHz
Impedance	50 Ω
VSWR Max	1.35
IL Max(1 meter assembly)	4dB
*Mechanical Phase Stability	$< \pm 5^\circ$
Amplitude Stability vs Shaking	$< \pm 0.1\text{dB}$

* Wrapped 360° around a 36mm radius mandrel.

Mechanical & Environmental

Min.Bending Radius Static	18mm
Min. Bending Radius Repeated	36mm
Velocity of Propagation	76%
Temperature(Operation)	-50~85 °C
Temperature(Storage)	-60~85 °C

Bulk Cable Attenuation(Typical@25℃) & Power(VSWR=1.0; 40℃; Sea level)

Frequency MHz	300	1000	2000	4000	6000	8000	10000	12000	18000	26500	40000	50000
dB/100 Meter	23.9	43.8	62.2	88.5	108.8	126.1	141.5	155.4	191.8	234.8	291.7	328.5
Avg.Power kW	0.750	0.409	0.288	0.202	0.165	0.142	0.127	0.115	0.093	0.076	0.061	0.055
Attenuation at any frequency= $[1.370735 \times \text{SQRT}(\text{FMHz})] + [0.000440 \times \text{FMHz}]$												

Notes:

- 1) The above attenuation refers to typical loss of cable only, max loss is 1.1 times of typical loss. Insertion loss per connector is estimated as $0.03\text{dB} \times \text{SQRT Freq}(\text{GHz})$.
- 2) Power handling values are calculated based on cable properties. Power handling will vary based on connector type and actual VSWR of the cable assembly.

Typical Test Data (PL360P-24M24M-1M)

